



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Xiang Zhu, Ming Qu, & Yongmin Ge  
 Assignee: Lattice Semiconductor Corporation  
 Title: Charge Pump for a Low-Voltage Wide-Tuning Range Phase-Locked Loop  
 Serial No.: 10/817,215 Filing Date: April 2, 2004  
 Examiner: Tra, Anh Quan Group Art Unit: 2816  
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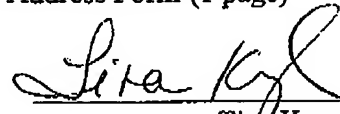
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